**CHEMICAL ENGINEERING TRIPOS PART IIB**

**Course 2020-21 and Examination 2021**

The structure of the examination is described below.

Topics in Group A and Group D are compulsory for all candidates.

Candidates are required to choose a total of **six** topics from Groups B and C, of which at least **two** must come from Group B and at least **two** must come from Group C. Further, at least two of the six modules chosen from Groups B and C should be assessed principally or entirely by written examination.

*Paper Module Mode of assessment*

**Group A Compulsory Topics**

A1 Compulsory topics examination and coursework

A2 Chemical product design coursework

**Group B** **Advanced Chemical Engineering Topics**

B1 Advanced transport processes examination

B2 Electrochemical engineering examination

B4 Rheology and processing examination

B5 Computational fluid dynamics coursework

B6 Fluid mechanics and the environment examination

B7 Interface Engineering examination

**Group C** **Broadening Material Topics**

C1 Optical microscopy examination

C3 Healthcare biotechnology coursework

C5 Foreign language coursework

C6 Biosensors and bioelectronics coursework

C7 Bionanotechnology examination and coursework

**Group D Research Project**

*Modules assessed by a combination of written examination and coursework*

The normal weighting is that 75% of marks come from the written examination, and 25% of marks come from the coursework.

*Arrangements for written examinations*

The approximate number of marks allocated to each part of a question will be indicated on the examination papers. Candidates will be provided with the *Chemical Engineering Tripos Data Book* for all examination papers.

Paper A1 will be a written examination of a duration of 1½ hours. It will contain **two** questions on Energy Technology. The rubric will read *‘Answer* ***all*** *questions’*. All the questions will carry equal marks.

The written examination papers for Group B and Group C modules will each be of a duration of 1½ hours. Each examination paper will contain two questions. The rubric will read *‘Answer* ***all*** *questions’*. All the questions will carry equal marks.

*Overall allocation of marks*

The normal allocation of marks is 75 marks for module A1, 50 marks for module A2, 50 marks for each Group B module, 50 marks for each Group C module, and 150 marks for the Group D Project.

**R. L. Tuley**

Secretary of the Chemical Engineering and Biotechnology Syndicate

February 2021